

PROJECT DESCRIPTION  
GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A CCTV SURVEILLANCE CAMERA MOUNTED ONTO A STEEL SUPPORT POLE. THE FIELD EQUIPMENT CABINET SHALL BE POLE MOUNTED AND SHALL INCLUDE ALL NECESSARY HARDWARE AND ELECTRICAL CONNECTIONS. THE CAMERA VIDEO FEED SHALL UTILIZE A T-1 DIGITAL DATA LINE.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. RANDAL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 321-2781  
MS. SUE POPE, UTILITY ENGINEER  
PHONE: (410) 321-2841  
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630  
MR. BILL BLOOM, HARFORD COUNTY OPERATIONS CENTER  
PHONE: (410) 638-3404

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9001	VIDEO MUX III AND CODEC UNIT	EA	1

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
8001	ITS FOUNDATION	CY	.5
8002	30 INCH X 48 INCH CONCRETE MANHOLE	EA	1
8005	COMMUNICATIONS PEDESTAL	EA	1
8009	3 INCH SCHEDULE 80 RIGID PVC CONDUIT	LF	210
8010	3 INCH SCHEDULE 80 PVC CONDUIT-BORED	LF	145
8011	5 PAIR NO. 22 AWG SHIELDED COPPER CABLE	LF	180
8012	CAMERA CABLE ASSEMBLY	LF	35
8013	TRENCHING 8 INCH WIDE X 30 INCH DEEP	LF	210
8014	NO. 4 AWG STRANDED BARE COPPER GROUND WIRE	LF	180
8015	ELECT. CABLE 1-COND. NO. 4 AWG-THHN/THWN	LF	350
8016	CAMERA ASSEMBLY	EA	1
8017	GROUND ROD-3/4 INCH DIA. X 10 FOOT LENGTH	EA	4
8019	EMBEDDED CONTROL & DISTRIBUTION	EA	1
8020	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	1
NEG.	STEEL POLE EXTENSION	EA	1
NEG.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT	LF	20
NEG.	3/4 INCH SCHEDULE 80 RIGID PVC CONDUIT	LF	75
NEG.	1 1/4 INCH FLEXIBLE INNER DUCT	LT	35

CONSTRUCTION DETAILS

- A. FURNISH AND INSTALL POLE MOUNTED EQUIPMENT CABINET WITH 3 INCH CONDUIT LB, FIELD WELD STEEL POLE EXTENSION WITH CLOSED CIRCUIT TELEVISION CAMERA ONTO EXISTING TRAFFIC SIGNAL STRUCTURE WITH ALL NECESSARY MOUNTING HARDWARE.
- B. FURNISH AND INSTALL TELECOMMUNICATIONS SERVICE PEDESTAL.
- C. FURNISH AND INSTALL 3 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED, STUB UP CONDUIT END AT BASE OF UTILITY POLE.
- D. FURNISH AND INSTALL 3 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED, STUB UP CONDUIT OUTSIDE EXISTING FOUNDATION, RISER UP AND CONNECT INTO CABINET BOTTOM PLATE. (PROVIDE 5 PAIR NO. 22 AWG SHIELDED COPPER CABLE).
- E. FURNISH AND INSTALL METERED SERVICE PEDESTAL.
- F. FURNISH AND INSTALL 4 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED, STUB UP CONDUIT END AT BASE OF UTILITY POLE.
- G. FURNISH AND INSTALL 30 INCH X 48 INCH CONCRETE MANHOLE.
- H. FURNISH AND INSTALL 3 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED, PROVIDE 2 WIRE, 1 CONDUCTOR NO. 4 AWG THHN/THWN, ELECTRICAL CABLE.
- J. FURNISH AND INSTALL 3 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED, PROVIDE 2 WIRE, 1 CONDUCTOR NO. 4 AWG THHN/THWN, ELECTRICAL CABLE WITH NO. 4 AWG STRANDED BARE COPPER CABLE.
- K. FURNISH AND INSTALL 3 INCH SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED, (PROVIDE 5 PAIR NO. 22 AWG SHIELDED COPPER CABLE).
- L. FURNISH AND INSTALL ELECTRICAL HANDHOLE.

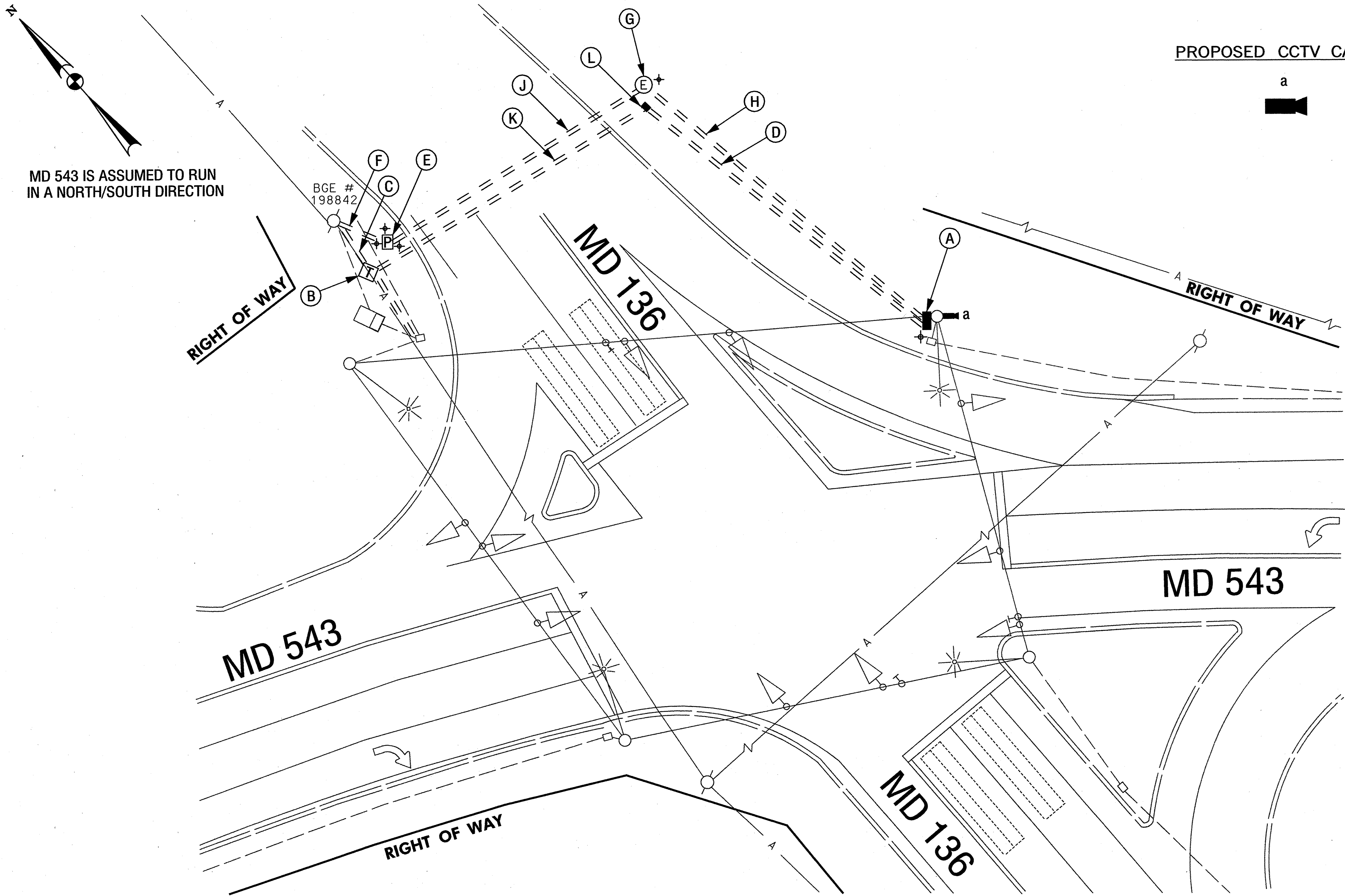
GEOMETRIC LEGEND

--- EXISTING

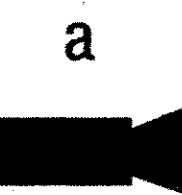
UTILITY LEGEND

--- SD --- STORM DRAIN  
--- G --- GAS MAIN  
--- W --- WATER MAIN  
--- SAN --- SEWER MAIN  
--- E --- ELECTRIC CABLES  
--- A --- AERIAL CABLES  
--- T --- TELEPHONE CABLES  
--- FO --- FIBER-OPTIC

MD 543 IS ASSUMED TO RUN  
IN A NORTH/SOUTH DIRECTION



PROPOSED CCTV CAMERA



MD 543

MD 136

MD 136

GENERAL NOTES

1. ALL PROPOSED CCTV CONTROL EQUIPMENT CABINETS AND ELECTRICAL SERVICE EQUIPMENT FEEDS SHALL BE PROVIDED WITH PROPER GROUNDING SYSTEMS. THIS WORK MAY INCLUDE ADDITIONAL EQUIPMENT AS GROUND RODS, GROUND WIRE, GROUNDING CONDUCTORS AND TERMINATIONS, PER SECTION 804.
2. THE CONTRACTOR SHALL NOT INTERRUPT NOR INTERFERE WITH THE EXISTING TRAFFIC CONTROL SIGNAL OPERATION WHILE WORKING AT THIS INTERSECTION, UNLESS PRIOR WRITTEN APPROVAL OR DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC CONTROL AT ALL TIMES WHILE WORKING AT THE INTERSECTION.
4. ALL PROPOSED CCTV CAMERA CONTROL CABLE SHALL BE INSTALLED IN A FLEXIBLE CORRUGATED INNER DUCT RACEWAY. THE INNER DUCT SHALL BE HIGH DENSITY POLYETHYLENE, ORANGE IN COLOR AND SHALL MEET ASTM D3035.
5. ALL FIELD WELDING SHALL REQUIRE INSPECTION AND APPROVAL BY THE SHA, OOM. PRIOR TO THE START OF ANY FIELD WORK THE CONTRACTOR SHALL CONTACT MR. WEISNER AT (301) 513-7373 TO COORDINATE A WORK SCHEDULE.



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 543 AT MD 136

APPROVALS  
TEAM LEADER TRAFFIC ENGINEERING DIVISION  
ASST. CHIEF TRAFFIC ENGINEERING DIVISION  
CHIEF TRAFFIC ENGINEERING DIVISION  
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

REVISIONS

CCTV CAMERA

SCALE 1"=20' DATE 07/15/05 CONTRACT NO. AT6225185

DESIGNED BY S. RENZI COUNTY HARFORD

DRAWN BY D. BROWN LOGMILE

CHECKED BY J. WEAVER T.I.M.S. NO.

F.A.P. NO. TOD NO.

DRAWING NO. OF SHEET NO. OF



SABRA, WANG & ASSOCIATES, INC.  
1504 JOH AVENUE  
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BALTIMORE, MD 21227  
(410) 737-8564  
WWW.SABRA-WANG.COM

PLOTTED: Thursday, July 14, 2005 AT 10:48 AM  
FILE: R:\2000\11 PB CHART\Task 27\_12 CCTV Sites in Harford County\Dgn\ITS-P02-543at136.dgn